

APOLLO

Organic Synthesis

FBISE Chemistry Class 11 (HSSC-I)

Domain E: Organic Chemistry

6 questions | questions

Original FBISE question crops. National Curriculum 2022-23 topic.

22.	Which compound will undergo nucleophilic addition reaction with HCN?	Propane	Propene	Propanone	Propanol
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46.	What intermediate compound is formed when ethanal is converting to lactic acid?	Ethanol	Ethanoic acid	Cyanohydrin	Ethene
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13.	Which reagent is used for the reduction of Carboxylic acids to Alcohols?	$KMnO_4$	$K_2Cr_2O_7$	$LiAlH_4$	H_2/Pt	☐	☐	☐	☐
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calculated from data obtained :				Orbital theory is superior to valence bond theory.										
Q.4	Describe by giving balanced chemical equations and necessary conditions that how a Carboxylic acid can be prepared from: a) CH_3-CH_2-Cl b) $CH_3-CH-CH_2-OH$ $$ CH_3 c) C_6H_5-CHO	2x3	OR	Discuss the effect of following changes in the following reactions at equilibrium: <table border="1"><tr><td>i</td><td>Increasing pressure</td><td>$C_3H_8 + 5O_2 \rightleftharpoons 3CO_2 + 4H_2O$</td></tr><tr><td>ii</td><td>Removing SO_3</td><td>$2SO_2 + O_2 \rightleftharpoons 2SO_3$</td></tr><tr><td>iii</td><td>Decreasing temperature</td><td>$CO_2 + \Delta \rightleftharpoons CO + \frac{1}{2}O_2$</td></tr></table>		i	Increasing pressure	$C_3H_8 + 5O_2 \rightleftharpoons 3CO_2 + 4H_2O$	ii	Removing SO_3	$2SO_2 + O_2 \rightleftharpoons 2SO_3$	iii	Decreasing temperature	$CO_2 + \Delta \rightleftharpoons CO + \frac{1}{2}O_2$
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Q.5	How can one identify the functional groups in the following compounds?			Why is Ethene more reactive than Ethane?										

(vi)	Write chemical equation for the preparation of ethanol from: a. Ethanal b. Ethanoic acid	1.5 + 1.5
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(i)	Devise a synthetic route to convert methane into ethanoic acid.	03
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